

AMENDMENT TO THE ABSTRACT

Please replace the abstract with the following rewritten abstract:

ABSTRACT

A ~~Subject of the invention is the~~ method ~~[[of]]~~ and apparatus is provided for fabrication of highly reactive calcium sorbents and/or binding materials, from powdered calcium carbonate and/or fly-ashes coming from coal combustion, especially in boilers with fluidised bed furnaces. A method is provided in which ~~Method according to invention is characterised in that the~~ ashes with chemical by weight containing from 25% up to 45% SiO₂, from 3% up to 25% Al₂O₃, from 10% up to 40% CaO, from 5% up to 15% SO₃, beneficially with 51% addition of Portland cement or slag or clinker as activator, are beneficially pre-mixed with calcium carbonate and then the mixture or ashes are mechanically deagglomerated and activated through free particles collisions at the speed at least 8 m/sec. A device is provided including a ~~Device according to invention consisting of the~~ container closed with cover and the chamber, ~~characterised in that in~~ which the ashes inlet pipe is located centrally within the rotor axis and finished with the tapered, expanding down outlet, ~~whereas there is a group of arms, fastened radially to the disc of rotor, equipped with blades, at the same moment every second blade is positioned in the plane of rotor disc and the others have a lift of 1° up to 2,5°, and there is a cylindrical basket fastened between the outer cylindrical surface of the chamber and cylindrical outer surface of the container, and electrically connected with the earth of container.~~